

Practice

For use with pages 143–148

Tell whether the given number is a solution of $-1.5x > -12$.

1. -4

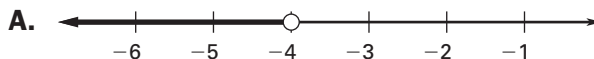
2. 12

3. 0

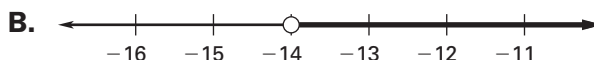
4. 8

Match the inequality with the graph of its solution.

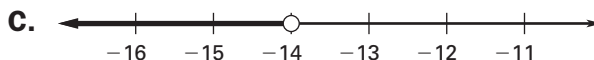
5. $\frac{x}{1.4} > -10$



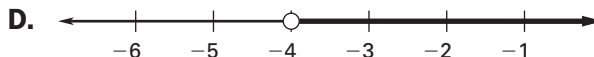
6. $-3.5x > 14$



7. $\frac{x}{-1.4} > 10$



8. $-3.5x < 14$



Solve the inequality. Graph your solution.

9. $\frac{x}{-10} \leq 22$



10. $\frac{x}{25} > -30$



11. $-13x < -208$



12. $45x \leq -855$



13. $1.6x \leq -11.2$



14. $-5.3x > 21.2$



15. $-10.7 > \frac{x}{-4}$



16. $8.3 \leq \frac{x}{-5}$



17. $\frac{x}{1.3} \geq 7.1$



18. $\frac{x}{-5.6} < 2.8$



Practice

For use with pages 143–148

19. $-3.8x \geq 28.5$



20. $10.4x > 520$



21. $-0.1x \leq -2.5$



22. $-9.8x \geq 44.1$



23. $\frac{x}{-12.7} \geq -2.2$



24. $\frac{x}{4.2} < -20.45$

**Write the verbal sentence as an inequality. Then solve the inequality.**

25. A number divided by 3.5 is greater than or equal to 7.8.

26. The product of a number and -5 is less than -1.6 .27. The product of a number and -0.9 is greater than 27.28. A number divided by -4.75 is greater than or equal to -20 .

29. You need to complete at least 300 math problems in 4 days for a homework assignment. How many exercises should you complete each day?

30. An admission pass for an art museum is \$4.50. Write and solve an inequality to find the number of passes p that must be sold for the museum to make at least \$7200.